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environmental \* sample cellulase \*cloning

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Detecting **cellulase** and esterase enzyme activities encoded by novel genes present in **environmental** ... - ► [le.ac.uk](#) [PDF]

HC Rees, S Grant, B Jones, WD Grant, S Heaphy - Extremophiles, 2003 - Springer

... Preliminary work shows that the **cellulases** are alkali- tolerant; HKCEL, for example, still shows enzyme ... it is possible to clone **environmental** genomic DNA ...

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**Cloning** the soil metagenome: a strategy for accessing the genetic and functional diversity of ... - ► [nih.gov](#)

MR Rondon, PR August, AD Battermann, SF Brady, TH ... - Applied and Environmental Microbiology, 2000 - Am Soc Microbiol

... rRNA gene sequences from numerous **environmental** sources (8 ... plant roots were visible in the **sample** ... Clones expressing **cellulase**, chitinase, esterase, keratinase ...

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... el Natrun soda lake **cellulase** enrichment cultures and identification of **cellulase** genes from these ...

S Grant, DY Sorokin, WD Grant, BE Jones, S Heaphy - Extremophiles, 2004 - Springer

... at the C-terminus of SS **cellulase** from amino ... For example, members of the SS9 clade show closest match ... appeared to be closest to uncultured **environmental** clones ...

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**Direct isolation** of functional genes encoding cellulases from the microbial consortia in a ...

FG Healy, RM Ray, HC Aldrich, AC Wilkie, LO Ingram ... - Applied Microbiology and Biotechnology, 1995 - Springer

... DNA was isolated from mixed-liquor **samples** pooled from both ... Only a single **clone** was found to express ... Properties of recombinants expressing **cellulase** activity ...

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**Metagenomics, biotechnology with non-culturable microbes**- ► [kosen21.org](#) [PDF]

C Schmeisser, H Steele, WR Streit - Applied Microbiology and Biotechnology, 2007 - Springer

... Isolation of functional genes encoding **cellulases** from the ... Daniel R (2000) Screening of **environmental** DNA libraries ... DNA isolation from soil **samples** for cloning ...

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Diversity of Kenyan soda lake alkaliphiles assessed by molecular methods

HC Rees, WD Grant, BE Jones, S Heaphy - Extremophiles, 2004 - Springer

... to select for the growth of **cellulase** and lipase ... **Environmental** mud, water, or sediments from each individual lake ... first combined to form a mixed **sample** for DNA ...

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**Cloning** and identification of novel **cellulase** genes from uncultured microorganisms in rabbit cecum ...

Y Feng, CJ Duan, H Pang, XC Mo, CF Wu, Y Yu, YL Hu ... - Applied Microbiology and Biotechnology, 2007 - Springer

... The **environmental** DNA is subsequently cloned into certain vectors ... DNA libraries of lake water **samples** and their ... study was to clone novel **cellulase** genes from ...

Cited by 6 - Related articles - Web Search - BL Direct - All 6 versions

... hybridization as a tool for identifying genetic diversity in an environmental metagenome: the rumen ...

EA Galbraith, DA Antonopoulos, BA White - **Environmental Microbiology**, 2004 - pt.wkhealth.com

... positive organism, the highly **cellulolytic** *Clostridium thermocellum* ... to metagenomic analysis of **environmental** microbial communities ... of one rumen **sample** but absent ...

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**Cloning** of genes encoding alpha-L-arabinofuranosidase and beta-xylosidase from *Trichoderma reesei* by ...

E Margoiles-Clark, M Tenkanen, T Nakari-Setälä, M ... - **Applied and Environmental Microbiology**, 1996 - Am Soc Microbiol

... DISCUSSION The **cloning** of genes by expression in yeasts has proven to ... genes encoding extracellular enzymes of *T. reesei*, for example, the **cellulase** EGV (33 ...

Cited by 67 - Related articles - Web Search - All 7 versions

**Environmental** cDNA analysis of the genes involved in lignocellulose digestion in the symbiotic ...

N Todaka, S Moriya, K Saita, T Hondo, I Kiuchi, H ... - **FEMS Microbiology Ecology**, 2007 - ingentaconnect.com

... A 50-mL **sample** obtained from a 10 ... Our '**environmental** cDNA library' approach in this study ... Molecular **cloning** and characterization of **cellulase** gene from a ...

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